

**To:** Harnett, Bill[Harnett.Bill@epa.gov]  
**From:** Dunkins, Robin  
**Sent:** Tue 6/21/2016 2:18:34 PM  
**Subject:** Fwd: Robin's presentation for NACAA Ag Committee today  
[NACAA ag presentation June 21 2016 final.pptx](#)  
[ATT00001.htm](#)

Robin Dunkins, Leader  
Natural Resources Group  
OAR/OAQPS/SPPD  
RTP, NC 27711  
Office: 919-541-5335  
Cell: 919-605-1178  
[dunkins.robin@epa.gov](mailto:dunkins.robin@epa.gov)

Begin forwarded message:

**From:** "Costa, Allison" <[Costa.Allison@epa.gov](mailto:Costa.Allison@epa.gov)>  
**Date:** June 21, 2016 at 9:10:55 AM EDT  
**To:** "Schrock, Bill" <[Schrock.Bill@epa.gov](mailto:Schrock.Bill@epa.gov)>, "Swanson, Nicholas" <[Swanson.Nicholas@epa.gov](mailto:Swanson.Nicholas@epa.gov)>  
**Cc:** "Dunkins, Robin" <[Dunkins.Robin@epa.gov](mailto:Dunkins.Robin@epa.gov)>, "Mills, Kathy" <[Mills.Kathy@epa.gov](mailto:Mills.Kathy@epa.gov)>  
**Subject:** Robin's presentation for NACAA Ag Committee today

Hi all,

Robin's presentation for the NACAA ag committee call today at 2 is attached. Please let me know if you have any questions.

Thanks,

Allison

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Allison Costa

U.S. EPA I Natural Resources Group I Sector Policies and Programs Division, OAQPS

109 T.W. Alexander Drive (Mail Drop E143-03) I Research Triangle Park, NC 27711

Phone: 919.541.1322 I email: [Costa.Allison@epa.gov](mailto:Costa.Allison@epa.gov)

**To:** Mills, Kathy[Mills.Kathy@epa.gov]; Costa, Allison[Costa.Allison@epa.gov]  
**From:** Dunkins, Robin  
**Sent:** Mon 6/20/2016 8:57:01 PM  
**Subject:** AAQTFdraftpresentation4 7 16finalv2.pptx  
[AAQTFdraftpresentation4 7 16finalv2.pptx](#)

I made edits to the SAB slide. Please proof for me

**To:** Houyoux, Marc[Houyoux.Marc@epa.gov]; Damberg, Rich[Damberg.Rich@epa.gov]  
**Cc:** Costa, Allison[Costa.Allison@epa.gov]  
**From:** Dunkins, Robin  
**Sent:** Tue 6/7/2016 2:13:51 PM  
**Subject:** PM2.5 ammonia discussion  
[Subsections c and f for emissions part of RTC alc.docx](#)

Marc/Rich,

I apologize for the lateness of this response. If it's not too late, we offer the following for consideration in the PM2.5 precursor policy RTC

Robin Dunkins, Group Leader

Natural Resources Group

OAR/OAQPS/SPPD Mail Code: E143-03

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

919-541-5335

dunkins.robin@epa.gov

**To:** Eck, Janet[Eck.Janet@epa.gov]  
**Cc:** Schrock, Bill[Schrock.Bill@epa.gov]  
**From:** Dunkins, Robin  
**Sent:** Fri 5/20/2016 4:19:55 PM  
**Subject:** FW: GAO request for update RE: 2008 GAO audit, Concentrated Animal Feeding Operations: EPA Needs More Information and a Clearly Defined Strategy to Protect Air and Water Quality from Pollutants of Concern  
GAO RECOMMENDATION FOLLOW UP OLD RECOMMENDATIONS OAR\_050216\_wcsv2.xlsx

Janet,

This response is ready to move forward.

Thanks!

Robin Dunkins, Group Leader

Natural Resources Group

OAR/OAQPS/SPPD Mail Code: E143-03

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

919-541-5335

dunkins.robins@epa.gov

**From:** Schrock, Bill  
**Sent:** Monday, May 16, 2016 10:55 AM  
**To:** Dunkins, Robin <Dunkins.Robin@epa.gov>  
**Subject:** RE: GAO request for update RE: 2008 GAO audit, Concentrated Animal Feeding Operations: EPA Needs More Information and a Clearly Defined Strategy to Protect Air and Water Quality from Pollutants of Concern

## Ex. 5 - Deliberative Process

Bill Schrock  
U.S. EPA  
RTP, NC 27709  
(919) 541-5032  
(919) 541-3470 (fax)

**From:** Dunkins, Robin  
**Sent:** Thursday, May 12, 2016 5:38 PM  
**To:** Schrock, Bill <[Schrock.Bill@epa.gov](mailto:Schrock.Bill@epa.gov)>  
**Subject:** RE: GAO request for update RE: 2008 GAO audit, Concentrated Animal Feeding Operations: EPA Needs More Information and a Clearly Defined Strategy to Protect Air and Water Quality from Pollutants of Concern

Let's discuss tomorrow. It seems that you are interchanging EEMS with process based models.

Robin Dunkins, Group Leader

Natural Resources Group

OAR/OAQPS/SPPD Mail Code: E143-03

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

919-541-5335

[dunkins.robin@epa.gov](mailto:dunkins.robin@epa.gov)

**From:** Schrock, Bill  
**Sent:** Thursday, May 12, 2016 4:04 PM  
**To:** Dunkins, Robin <[Dunkins.Robin@epa.gov](mailto:Dunkins.Robin@epa.gov)>  
**Subject:** FW: GAO request for update RE: 2008 GAO audit, Concentrated Animal Feeding Operations: EPA Needs More Information and a Clearly Defined Strategy to Protect Air and Water Quality from Pollutants of Concern

Robin – I've included a draft response under the EPA Notes column. Please review and edit/pass along. This is due back by May 20<sup>th</sup>. Thanks

Bill Schrock  
U.S. EPA  
RTP, NC 27709  
(919) 541-5032  
(919) 541-3470 (fax)

**From:** Hingeley, Maureen  
**Sent:** Friday, April 22, 2016 4:07 PM  
**To:** Collins, JoLynn <[Collins.Jolynn@epa.gov](mailto:Collins.Jolynn@epa.gov)>; Jones, Mike <[Jones.Mike@epa.gov](mailto:Jones.Mike@epa.gov)>; OAQPS CMT <[OAQPS\\_CMT@epa.gov](mailto:OAQPS_CMT@epa.gov)>; Dunkins, Robin <[Dunkins.Robin@epa.gov](mailto:Dunkins.Robin@epa.gov)>; Schrock, Bill <[Schrock.Bill@epa.gov](mailto:Schrock.Bill@epa.gov)>  
**Subject:** GAO request for update RE: 2008 GAO audit, Concentrated Animal Feeding Operations: EPA Needs More Information and a Clearly Defined Strategy to Protect Air and Water Quality from Pollutants of Concern

Hi all,

GAO has requested an update on an older 2008 audit report GAO-08-944, *Concentrated Animal Feeding Operations: EPA Needs More Information and a Clearly Defined Strategy to Protect Air and Water Quality from Pollutants of Concern*. In appendix V of the attached report contains the agency's response to the report recommendations. For the 2 recommendations listed in the excel doc, please provide an update on the current status by May 20<sup>th</sup>. Please note this is a shared audit with OW. Please let me know if there are any questions or additional info is needed. Thanks.

Best,

Maureen

Maureen Hingeley

Office of Program Management Operations

Office of Air and Radiation

EPA

202-564-1306



**To:** Costa, Allison[Costa.Allison@epa.gov]  
**From:** Dunkins, Robin  
**Sent:** Wed 4/6/2016 4:30:32 PM  
**Subject:** Fwd: Regional slides added.  
[AAQTFpresentation\\_040516v2 plus KD.pptx](#)  
[ATT00001.htm](#)

Robin Dunkins, Leader  
Natural Resources Group  
OAR/OAQPS/SPPD  
RTP, NC 27711  
Office: 919-541-5335  
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[dunkins.robin@epa.gov](mailto:dunkins.robin@epa.gov)

Begin forwarded message:

**From:** "Drake, Kerry" <[Drake.Kerry@epa.gov](mailto:Drake.Kerry@epa.gov)>  
**Date:** April 6, 2016 at 12:22:00 PM EDT  
**To:** "Dunkins, Robin" <[Dunkins.Robin@epa.gov](mailto:Dunkins.Robin@epa.gov)>  
**Subject:** Regional slides added.

**To:** Koerber, Mike[Koerber.Mike@epa.gov]  
**Cc:** Tsirigotis, Peter[Tsirigotis.Peter@epa.gov]; Vasu, Amy[Vasu.Amy@epa.gov]  
**From:** Dunkins, Robin  
**Sent:** Fri 3/25/2016 7:38:12 PM  
**Subject:** NAEMS memo\_ORD FTE request\_032516\_formal.docx  
[NAEMS memo\\_ORD FTE request\\_032516\\_formal.docx](#)

Mike,

Here is a draft of the memo we discussed with Janet yesterday. Steve indicated he wanted to get this out by Monday. Please review and let us know if you have additional edits.

Thanks,

Robin

# Air Quality Update for NACAA

June 21, 2016

U.S. EPA  
Office of Air and Radiation  
Office of Air Quality Planning and Standards

# Overview

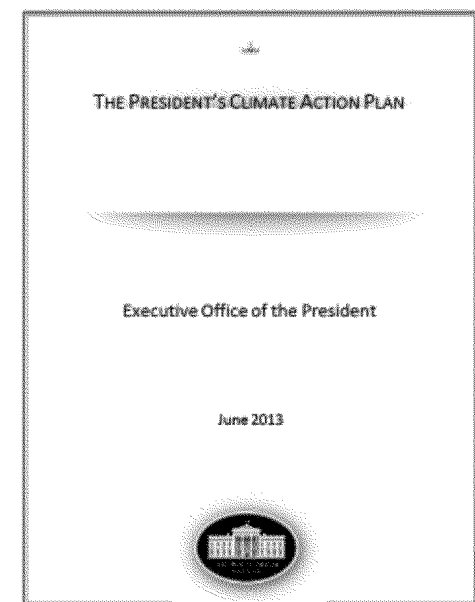
---

- ▶ Presidential Climate Directives
  - ▶ Climate Action Plan
  - ▶ Methane Strategy
- ▶ Biomass
  - ▶ Framework
  - ▶ Treatment in CPP
- ▶ National Ambient Air Quality Standards (NAAQS)
  - ▶ Exceptional Events
- ▶ Animal Production Sector Air Quality
  - ▶ Petitions/Litigation
  - ▶ National Air Emissions Monitoring Study (NAEMS)
  - ▶ Best Management Practices
- ▶ NESHAP/NSPS Updates
  - ▶ Reciprocating Internal Combustion Engines
  - ▶ Grain Elevators
  - ▶ Phosphoric Acid and Phosphate Fertilizer
  - ▶ Nutritional Yeast
- ▶ EPA's Farm, Ranch and Rural Community Committee
- ▶ Farm Bill SAB Agriculture Committee
- ▶ Additional Agency Activities
- ▶ Appendix

# Climate Action Plan

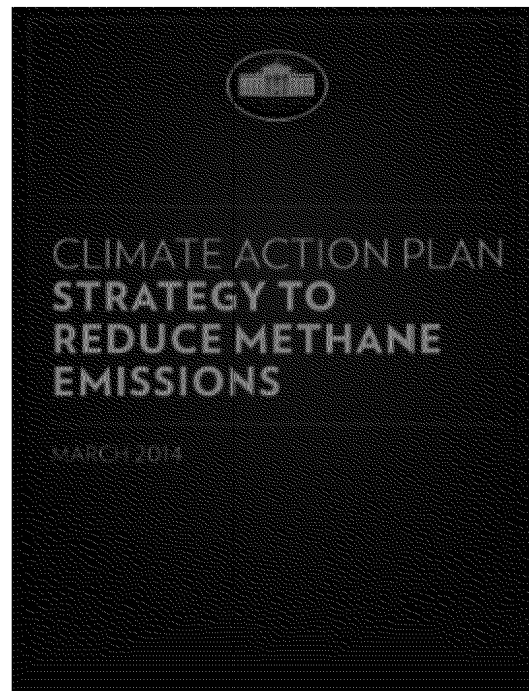
---

- ▶ The President's Climate Action Plan was released in June 2013
- ▶ The plan's 3 key pillars contain actions to:
  - ▶ Cut domestic GHG emissions
  - ▶ Prepare the U.S. for the impacts of climate change
  - ▶ Continue U.S. leadership in international efforts to combat global climate change
- ▶ Supports Administration's climate goal:
  - ▶ Reduce U.S. GHG emissions in the range of 17% below 2005 levels by 2020



# Strategy to Reduce Methane Emissions: Background

- ▶ Published in March 2014 as one deliverable under the Climate Action Plan
- ▶ Commits to regulatory and voluntary activities to reduce methane emissions from agriculture, coal mines, landfills & oil and gas systems
  - ▶ No regulatory activities were proposed for agriculture
- ▶ Also calls for improved methane measurement and modeling methods



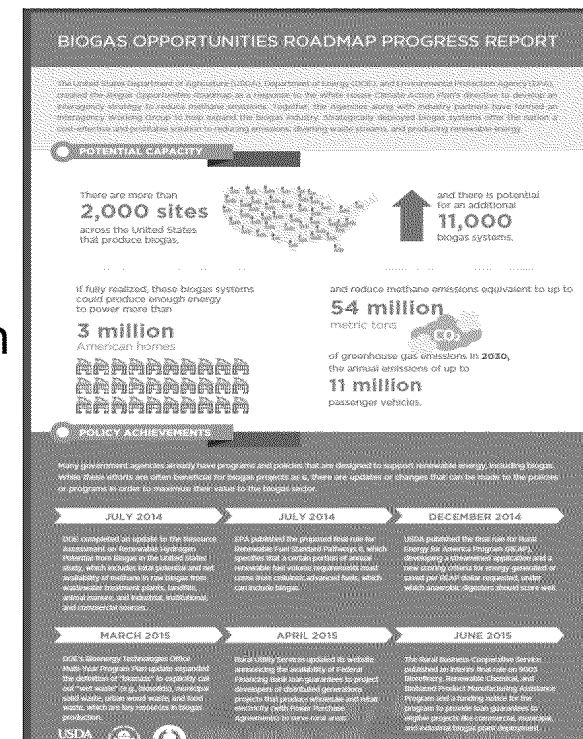
# Biogas Opportunities Roadmap

## *Biogas Opportunities Roadmap: Voluntary Actions to Reduce Methane Emissions and Increase Energy Independence (August 2014)*

- ▶ Action item from Interagency Methane Strategy
- ▶ Jointly developed by USDA, DOE and EPA with industry input
- ▶ *Goal:* Stimulate expanded use of biogas systems by leveraging resources of multiple government agencies

- ▶ Issued *Progress Report* in December 2015 highlighting achievements, continued challenges and opportunities, and future strategies

- ▶ EPA launching new cross-sector anaerobic digestion (AD) webpage this summer, which will include a national food waste mapping tool
- ▶ USDA increased REAP funding for AD projects & is working on a biogas mapping tool
- ▶ Relationships continue to improve and expand between the two agencies



# AgSTAR

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- ▶ Established in 1994 to provide technical support to livestock operations for voluntary methane reduction projects
- ▶ National Agricultural Anaerobic Digester Database
  - ▶ Comprehensive listing of farm-scale digester projects in the U.S. & relevant project details
  - ▶ Updated in May 2016 <https://www.epa.gov/agstar/livestock-anaerobic-digester-database>
- ▶ Interagency Agreement (IA) with USDA
  - ▶ EPA AgSTAR & USDA Rural Development renewed IA in September 2015 - the continuation of a 20+ year relationship between AgSTAR and Rural Development
- ▶ Upcoming Activities
  - ▶ Literature review of air and water emissions from farm AD projects (expected August 2016)
  - ▶ Participation in BioCycle REFOR conference in Orlando (October 2016)
  - ▶ Participation in WRI workgroup developing principles for sustainable use of renewable natural gas as a vehicle fuel



# Biomass: Revised Framework

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- ▶ Technical report that presents important considerations (e.g., scope, baseline type, temporal and spatial scales, leakage) and an equation that can be used when assessing biogenic CO<sub>2</sub> emissions from stationary sources
  - ▶ Report is not specific to any policy or program
- ▶ First draft released in 2011; associated EPA Science Advisory Board (SAB) review completed in 2012
- ▶ Revised report released November 2014, along with SAB review request
- ▶ Key takeaways
  - ▶ Biomass should not be assumed to be carbon neutral
  - ▶ Net biogenic CO<sub>2</sub> atmospheric contribution depends on various factors (type, production and combustion practices), and, in some cases, what would happen to the feedstock if not used for energy production
  - ▶ Illustrative studies exemplify how some feedstocks, such as those from waste-derived feedstocks, may have minimal or zero net emissions when used for energy production
- ▶ In February 2016, the SAB biomass panel submitted a draft peer review report to the full chartered SAB for a quality review
- ▶ SAB review took place March 31 - April 1, 2016
  - ▶ SAB recommended that the draft peer review report recommendations should undergo further revisions by the SAB Biomass Panel

# Biomass Engagement

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- ▶ States and stakeholders have shown strong interest in the role biomass can play in state strategies to address carbon pollution
- ▶ EPA-hosted public workshop focused specifically on biomass (April 7, 2016)
  - ▶ Goal: To provide a forum to discuss efforts to further evaluate the role of biomass in stationary source carbon strategies
  - ▶ States and other stakeholders from industry and academia shared their successes, experiences and approaches to deploying biomass in ways that have been, and can be, carbon beneficial.
  - ▶ Over 300 stakeholders attended the workshop.
  - ▶ Presentations from the workshop are available on our website

For more information on the framework and workshop, visit:

<https://www3.epa.gov/climatechange/ghgemissions/biogenic-emissions.html>

# Biomass: Treatment in CPP

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- ▶ CPP includes bioenergy as an option for meeting state goals and compliance with power plant emission standards
- ▶ Where biomass is incorporated in a state plan, states must propose biomass types for use
  - ▶ How they are considered as “qualified biomass” (i.e., a biomass feedstock that is demonstrated as a method to control increases of CO<sub>2</sub> levels in the atmosphere)
- ▶ Not all forms of biomass may be approvable as qualified biomass
  - ▶ Like other technologies, proposed qualified biomass feedstock use requires adequate monitoring, reporting and verification requirements
  - ▶ Waste-derived and certain industrial byproduct feedstocks would likely be approvable
  - ▶ Forestry and agriculture feedstocks may also be acceptable, if state plans adequately demonstrate they control increases of CO<sub>2</sub> levels in the atmosphere
- ▶ Information in the revised Framework, second SAB process, and state/third party programs can assist states considering the role of biomass in state energy solutions
- ▶ In the proposed CPP federal plan/model rule, EPA requested comment on topics related to biomass, including whether biomass should be included and, if so, how it should be included and verified

# Wildland Fire Activities

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- ▶ **Exceptional Events Rule Revisions and Wildfire Guidance Development**
  - ▶ November 2015: Proposed Rulemaking for rule revisions and Notice of Availability for draft guidance (80 FR 72840)
  - ▶ February 2016: Close of comment period
  - ▶ Summer 2016: Final rule and final guidance document
  - ▶ Summer/Fall 2016: Communication and outreach
    - Additional draft guidance document(s) available for stakeholder review
    - Revisions to 2013 Interim Exceptional Events Implementation Guidance
    - Continued development of exceptional events tools (e.g., website, templates)
    - Implementation workshop(s)/webinars for states, tribes, and other affected stakeholders following promulgation
- ▶ **EPA/USDA/DOI Partnership Agreement**
  - Focus on wildfire-related air quality issues
  - Establishes two-year workplans, which will be revised annually

# Animal Production: Update on Petitions/Litigation

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- ▶ *Zook v. McCarthy* (D.C. Cir.): Dismissed
  - ▶ Sought to compel EPA to list ammonia and hydrogen sulfide as criteria pollutants (CAA 108) and list CAFOs as a source category (CAA 111)
  - ▶ D.C. Circuit upheld court decision to dismiss (April 2015) & denied petition for panel rehearing (June 2015); Supreme Court denied petition for rehearing (Nov. 2015)
- ▶ *EIP v. EPA* (D.C. Cir): New NOI
  - ▶ Petitioners: EIP, Iowa Citizens for Community Improvement, Clean Wisconsin, CFS, HSUS, Association of Irrigated Residents, Food & Water Watch
  - ▶ Filed original petition to regulate ammonia as a criteria pollutant (CAA 108 & 109) in April 2011
  - ▶ Filed unreasonable complaint delay under APA in Jan. 2015, which was dismissed in Dec. 2015 because Plaintiffs had not filed proper notice or used appropriate statute
  - ▶ Provided new NOI under CAA 304 in Feb. 2016

## Animal Production: Update on Petitions/Litigation (cont'd)

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- ▶ *HSUS v. EPA* (D.C. Cir): Awaiting Decision
  - ▶ Petitioners: HSUS, Association of Irrigated Residents, EIP, Friends of the Earth, Sierra Club
  - ▶ Filed original petition to list CAFOs as a category of sources under CAA (CAA 111(B)) in Sept. 2009
  - ▶ Filed unreasonable complaint delay under APA in Jan. 2015

# Animal Production: NAEMS Update

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## ► Background

- 2005: Voluntary air compliance agreement reached with AFO industry
- 2007 – 2010: Conducted emissions measurements at AFOs
- 2011: Submitted draft emissions estimating methodologies for broiler confinement houses and swine and dairy lagoons/basins to the EPA Science Advisory Board (SAB) for review
- 2013: Received final report from SAB with several recommendations

## ► SAB Recommendations

- Need for additional data to fill specific gaps in knowledge
  - EPA worked with the NAEMS Science Advisor to reanalyze the raw data at different completeness criteria levels
  - EPA has received analysis, but has not investigated the impacts of the different completeness criteria on the EEMs
  - EPA acquired several new datasets and incorporated those data into the larger NAEMS dataset
- Encouraged EPA to develop a more complex modeling tool to estimate emissions that would reflect greater variability in animal production systems
- Suggested applying improved versions of the draft methodologies in the interim

# Animal Production: NAEMS Update (cont'd)

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## ► **Current Status**

- Although addressing the SAB comments has delayed finalization of the emissions-estimating methodologies, EPA plans to continue this work and will use the findings, in conjunction with related recommendations from the 2003 National Research Council, to account for air emissions from AFOs
- EPA's Office of the Inspector General initiated an evaluation of EPA's effort to evaluate air emissions from animal feeding operations in March 2016



# Animal Production: Best Management Practices

*Agricultural Air Quality Conservation Measures:  
Reference Guide for Poultry & Livestock Production Systems*

- ▶ Collaboration between USDA-NRCS and EPA
- ▶ Expected publication: Winter 2016
- ▶ Follow-up to 2012 guide for cropping systems and general land management
- ▶ Purpose of the guide:
  - ▶ Provide a broad set of conservation practices for poultry/livestock operations that may address air resource concerns
    - Strong focus on NRCS conservation standards
    - Also includes other demonstrated practices
  - ▶ Allow stakeholders to choose measures relevant to their operations
- ▶ The guide does not:
  - ▶ Provide regulatory measures
  - ▶ Quantify current agricultural air quality impacts
  - ▶ Present a comprehensive list of all emission reduction measures or their co-benefits

# NESHAP/NSPS Updates

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## ► RICE NESHAP/NSPS

- NESHAP finalized in 2013; applies to agricultural stationary engines
  - <https://www3.epa.gov/ttn/atw/icengines/docs/20140205agenginecomplianceinfo.pdf>
- May 2015 vacature of some NESHAP and NSPS provisions related to emergency engines
- Minor NSPS amendments to be finalized in spring 2016:
  - Allow owner/operator to temporarily override engine performance inducements related to the emission control system during emergency situations
- Videos for farmers available: <http://www.apti-learn.net/LMS/EPAHomePage.aspx>  
(Click on LEARN, Stationary Sources, then Launch Course)

## ► Grain Elevators NSPS

- Expect signature on final rule in late 2016

## ► Phosphoric Acid and Phosphate Fertilizer RTR & Phosphate Processing

NSPS review: <https://www3.epa.gov/airtoxics/phosph/phosphpg.html#IMP>

- Final rule issued in August 2015

## ► Nutritional Yeast RTR

- Originally promulgated in 2001; applies to yeast used in baking and nutritional food supplements (not yeast used for animal feed or beer/wine)
- March 2016: *Sierra Club v. EPA* (DC Cir.) requires RTR to be finalized by October 1, 2017

# Farm, Ranch & Rural Communities Committee

<https://www.epa.gov/faca/frrcc>

# The Farm Bill SAB Agricultural Science Committee

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## Farm Bill Charge

“Provide scientific and technical advice to the Board relating to matters referred to the Board that the Administrator and the Board determines, in consultation with the Secretary of Agriculture, to have a significant direct impact on enterprises that are engaged in the business of the production of food and fiber, ranching and raising livestock, aquaculture and all other farming and agriculture related industries”

- ▶ Members appointed by the Administrator and the Board, in consultation with the Secretary of Agriculture
- ▶ Status: EPA’s SAB Office and Agricultural Counselor have reviewed 88 candidates and 300 public comments, consulted with USDA, and is now developing a package of recommendations for the Administrator’s consideration

# Additional Agency Activities

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## ***USDA-EPA Ammonia Workgroup***

- ▶ Facilitates information exchange and collaboration on activities related to ammonia measurements, modeling, and mitigation strategies

## ***Nutrient Recycling Challenge***

- ▶ EPA is partnering with USDA, pork and dairy producers, and environmental and scientific experts on the Nutrient Recycling Challenge, a multi-phase competition to develop affordable technologies that recycle nutrients from livestock waste
- ▶ Challenge participants will develop technologies that extract nutrients from livestock manure to generate products with environmental and economic benefits that farmers can use or sell
- ▶ Phase I (concept paper) winners were announced March 30, 2016
- ▶ Details about Phase II (designs) will be announced this Summer
  - ▶ 34 submissions were chosen from Phase I to continue to Phase II

For more information

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**Robin Dunkins**

Agriculture Advisor for the Air Office  
Group Leader, Natural Resources Group  
Sector Policies and Programs Division  
Office of Air Quality Planning and Standards  
(919) 541-5335  
[dunkins.rob@epa.gov](mailto:dunkins.rob@epa.gov)

**From:** StClair, Aimee  
**Location:** RTP-OAQPS-E141B/RTP-OAQPS-BLDG-E  
**Importance:** Normal  
**Subject:** The "Reference guide" project update  
**Start Date/Time:** Thur 9/10/2015 5:00:00 PM  
**End Date/Time:** Thur 9/10/2015 5:45:00 PM  
AFOs Air Emisissions BMPs Work Plan update 9.9.2015.docx

Attached is the write up of talking points that I wish we may discuss at tomorrow's meeting. I hope this will not only keep you informed of the progress, but also keep the communication open so that I may get inputs and advice from you all before I start drafting the document.

**To:** Beasley, Lynn[Beasley.Lynn@epa.gov]  
**Cc:** Jennings, Kim[Jennings.Kim@epa.gov]; Yonce, Stacey[yonce.stacey@epa.gov]  
**From:** McNamara, Ruth  
**Sent:** Tue 4/12/2016 2:47:01 PM  
**Subject:** Re: CAFO.....

Okay thanks.

---

**From:** Beasley, Lynn  
**Sent:** Tuesday, April 12, 2016 9:40 AM  
**To:** McNamara, Ruth  
**Cc:** Beasley, Lynn; Jennings, Kim; Yonce, Stacey  
**Subject:** RE: CAFO.....

Hi Ruth,

No, the study has not completed and there are not final numbers yet.

Lynn M. Beasley, Deputy Director

Resources Management Division (RMD)

Office of Emergency Management

Mail Code: 5104A

office: (202) 564-1965

cell: (202) 309-4538

**From:** McNamara, Ruth  
**Sent:** Tuesday, April 12, 2016 10:32 AM  
**To:** Beasley, Lynn <Beasley.Lynn@epa.gov>  
**Subject:** Fw: CAFO.....



Lynn - could you please answer this. I couldn't remember the status of this.

---

**From:** Jeffrey.Beattie@epa.ohio.gov <Jeffrey.Beattie@epa.ohio.gov>  
**Sent:** Wednesday, March 30, 2016 9:25 AM  
**To:** McNamara, Ruth; Entzminger, James  
**Cc:** Hans, Mick  
**Subject:** CAFO.....

Hello.....at the end of the attached fact sheet.....it states "EPA is working on developing emission estimating methodologies based in part on the data collected in the National Air Emissions Monitoring Study, which is scheduled for completion at the end of 2009 with the final report to be complete in 2011. For more information on the Air Compliance Agreement and the Air Emissions Monitoring Study, please visit: <http://www.epa.gov/compliance/resources/agreements/caa/cafo-agr.html>."

Has this study been concluded and emission estimating methodologies been finalized?

**To:** Dunkins, Robin[Dunkins.Robin@epa.gov]; Schrock, Bill[Schrock.Bill@epa.gov]; Costa, Allison[Costa.Allison@epa.gov]  
**Cc:** Franklin, Pamela[Franklin.Pamela@epa.gov]  
**From:** Voell, Christopher  
**Sent:** Thur 4/21/2016 12:29:37 PM  
**Subject:** FW: EPA General Counsel, Avi Garbow re: EnviroCirc EPA meeting Thursday at 10  
[U.S. vs. Ysselstein and Meadowvale Dairy.pdf](#)

Just wanting to verify that you all are planning to be on this call at 10 am. Regards, Chris

Chris Voell, Program Manager

AgSTAR and Global Methane Initiative

USEPA Climate Change Division

[voell.christopher@epa.gov](mailto:voell.christopher@epa.gov), 202-343-9468

**From:** Ex. 6 - Personal Privacy  
**Sent:** Wednesday, April 20, 2016 6:17 PM  
**To:** Voell, Christopher; Franklin, Pamela; Dunkins, Robin; Schrock, Bill; Costa, Allison  
**Subject:** FWD: EPA General Counsel, Avi Garbow re: EnviroCirc EPA meeting Thursday at 10

FYI - this just in from our Environmental attorney at Goodwin Procter re: the VW & Aliso Canyon Mitigation/SEP opportunities:

Tom,

By happenstance, I had lunch in a small group today with EPA's General Counsel, Avi Garbow. On his own, in the course of the discussion, he raised methane as a climate change concern. After lunch, I mentioned to him that we had a client that was meeting with his climate change folks tomorrow about a possible solution. In a few words, I described your product and mentioned the possible connection to VW as a SEP. He seemed interested in what seemed to be a new idea to him. He asked who at EPA you were meeting with and I told him. He said "good."

Just wanted to pass on the information.

Larry

Laurence S. Kirsch

**Goodwin Procter LLP**

901 New York Avenue, N.W.

Washington, D.C. 20001

T: 202-346-4440

F: 202-204-7254

[lkirsch@goodwinprocter.com](mailto:lkirsch@goodwinprocter.com)

-----Original Message-----

From: Ex. 6 - Personal Privacy

To: voell.christopher <[voell.christopher@epa.gov](mailto:voell.christopher@epa.gov)>

Cc: franklin.pamela <[franklin.pamela@epa.gov](mailto:franklin.pamela@epa.gov)>; Dunkins.robin <[Dunkins.robin@epa.gov](mailto:Dunkins.robin@epa.gov)>; schrock.bill <[schrock.bill@epa.gov](mailto:schrock.bill@epa.gov)>; costa.allison <[costa.allison@epa.gov](mailto:costa.allison@epa.gov)>

Sent: Wed, Apr 20, 2016 8:24 am

Subject: Chris - It's Tom Martin of EnviroCirc re: our EPA meeting Thursday at 10

Dear Chris,

Bill Tooley and I look forward to meeting you and Pamela on Thursday, and the rest of your team by phone. As the meeting includes dial-in capabilities, I'm wondering, in light of your prior collaborations with NRCS, if it might be helpful from your perspective to include NRCS's Greg Zwicke, NRCS Air Quality and Atmospheric Change Team - on the call-in line to be available to verify his boots-on-the-ground impressions at our CIG demonstration lagoons and to confirm the technical aspects of our subsequent report, published last week at the behest of Chief Weller: (970) 295-5621 [greg.zwicke@ftc.usda.gov](mailto:greg.zwicke@ftc.usda.gov)

It was Greg who stated:

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We are additionally in dialogue with the owner re: exercising the SEP option to mitigate the impacts identified in the attached complaint

**UNITED STATES OF AMERICA, *Plaintiff,***

**v. SJERP YSSELSTEIN, MEADOWVALE DAIRY**

We look forward to the SEP-focused discussion, as framed by **EPA's August 2008 AFO Enforcement Alert:** <http://1.usa.gov/1QmweMh>

My best,

Tom Martin

Principal & Chief Strategist

EnviroCirc

(781) 686-2133

**To:** [Ex. 6 - Personal Privacy] Franklin, Pamela[Franklin.Pamela@epa.gov];  
Dunkins, Robin[Dunkins.Robin@epa.gov]; Schrock, Bill[Schrock.Bill@epa.gov]; Costa,  
Allison[Costa.Allison@epa.gov]  
**From:** Voell, Christopher  
**Sent:** Thur 4/21/2016 12:28:20 PM  
**Subject:** RE: EPA General Counsel, Avi Garbow re: EnviroCirc EPA meeting Thursday at 10

Tom: Per your question of yesterday, feel free to invite Greg Zwicke to call in via 1-866-299-3188; [Conference Code]

As a reminder, due to our schedule demands we only have one hour for this meeting. If you want/need any additional time we'd suggest you contact OAQPS directly or consider a follow up call or in person meeting with them.

We will see you at 10 am. Chris

Chris Voell, Program Manager

AgSTAR and Global Methane Initiative

USEPA Climate Change Division

[voell.christopher@epa.gov](mailto:voell.christopher@epa.gov), 202-343-9468

**From:** [Ex. 6 - Personal Privacy]  
**Sent:** Wednesday, April 20, 2016 6:17 PM  
**To:** Voell, Christopher; Franklin, Pamela; Dunkins, Robin; Schrock, Bill; Costa, Allison  
**Subject:** FWD: EPA General Counsel, Avi Garbow re: EnviroCirc EPA meeting Thursday at 10

FYI - this just in from our Environmental attorney at Goodwin Procter re: the VW & Aliso Canyon Mitigation/SEP opportunities:

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Just wanted to pass on the information.

Larry

Laurence S. Kirsch

**Goodwin Procter LLP**

901 New York Avenue, N.W.

Washington, D.C. 20001

T: 202-346-4440

F: 202-204-7254

[lkirsch@goodwinprocter.com](mailto:lkirsch@goodwinprocter.com)

-----Original Message-----

From: Ex. 6 - Personal Privacy

To: voell.christopher <[voell.christopher@epa.gov](mailto:voell.christopher@epa.gov)>

Cc: franklin.pamela <[franklin.pamela@epa.gov](mailto:franklin.pamela@epa.gov)>; Dunkins.robin <[Dunkins.robin@epa.gov](mailto:Dunkins.robin@epa.gov)>; schrock.bill <[schrock.bill@epa.gov](mailto:schrock.bill@epa.gov)>; costa.allison <[costa.allison@epa.gov](mailto:costa.allison@epa.gov)>

Sent: Wed, Apr 20, 2016 8:24 am

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**From:** Ex. 6 - Personal Privacy  
**Sent:** Wed 4/20/2016 10:16:59 PM  
**Subject:** FWD: EPA General Counsel, Avi Garbow re: EnviroCirc EPA meeting Thursday at 10 U.S. vs. Ysselstein and Meadowvale Dairy.pdf

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T: 202-346-4440  
F: 202-204-7254  
[lkirsch@goodwinprocter.com](mailto:lkirsch@goodwinprocter.com)

-----Original Message-----

**From:** Ex. 6 - Personal Privacy  
**To:** voell.christopher <voell.christopher@epa.gov>  
**Cc:** franklin.pamela <franklin.pamela@epa.gov>; Dunkins.robin <Dunkins.robin@epa.gov>; schrock.bill <schrock.bill@epa.gov>; costa.allison <costa.allison@epa.gov>  
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**To:** Doster, Brian[Doster.Brian@epa.gov]; Jordan, Scott[Jordan.Scott@epa.gov]; Schrock, Bill[Schrock.Bill@epa.gov]; Dunkins, Robin[Dunkins.Robin@epa.gov]; Costa, Allison[Costa.Allison@epa.gov]  
**Cc:** Bianco, Karen[Bianco.Karen@epa.gov]  
**From:** Smith, Kristi  
**Sent:** Tue 11/10/2015 2:58:55 PM  
**Subject:** RE: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry  
NPR Poultry Response 111015 + bld comments + KMS.docx

## Ex. 5 - Attorney Client & Deliberative Process

Kristi M. Smith \* Assistant General Counsel for the NAAQS Implementation Group \* Air & Radiation Law Office \* US EPA, Office of General Counsel \* smith.kristi@epa.gov \* (202) 564-3068 \*

CONFIDENTIAL communication for internal deliberations only; may contain deliberative, attorney-client, attorney work product, or otherwise privileged material; do not distribute outside EPA or DOJ.

**From:** Doster, Brian  
**Sent:** Tuesday, November 10, 2015 9:45 AM  
**To:** Jordan, Scott <Jordan.Scott@epa.gov>; Schrock, Bill <Schrock.Bill@epa.gov>; Dunkins, Robin <Dunkins.Robin@epa.gov>; Costa, Allison <Costa.Allison@epa.gov>  
**Cc:** Bianco, Karen <Bianco.Karen@epa.gov>; Smith, Kristi <Smith.Kristi@epa.gov>  
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**From:** Jordan, Scott  
**Sent:** Tuesday, November 10, 2015 8:45 AM  
**To:** Schrock, Bill <Schrock.Bill@epa.gov>; Dunkins, Robin <Dunkins.Robin@epa.gov>; Costa, Allison <Costa.Allison@epa.gov>  
**Cc:** Bianco, Karen <Bianco.Karen@epa.gov>; Smith, Kristi <Smith.Kristi@epa.gov>; Doster, Brian <Doster.Brian@epa.gov>  
**Subject:** Fw: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry

## **Ex. 5 - Attorney Client & Deliberative Process**

Scott Jordan

Air and Radiation Law Office

Office of General Counsel

202-564-7508

---

**From:** Schrock, Bill

**Sent:** Tuesday, November 10, 2015 7:43 AM

**To:** Jordan, Scott

**Cc:** Dunkins, Robin; Costa, Allison

**Subject:** FW: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry

Scott – Can you give this short response a quick review? Thanks and let me know if you have any questions.

Bill Schrock  
U.S. EPA  
RTP, NC 27709  
(919) 541-5032  
(919) 541-3470 (fax)

**From:** Dunkins, Robin  
**Sent:** Monday, November 09, 2015 5:21 PM  
**To:** Schrock, Bill <[Schrock.Bill@epa.gov](mailto:Schrock.Bill@epa.gov)>  
**Cc:** Costa, Allison <[Costa.Allison@epa.gov](mailto:Costa.Allison@epa.gov)>  
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Provided one comment on last question. Other than that I'm good with response.

Robin Dunkins, Group Leader

Natural Resources Group

OAR/OAQPS/SPPD Mail Code: E143-03

U.S. Environmental Protection Agency

Research Triangle Park, NC 27711

919-541-5335

[dunkins.robins@epa.gov](mailto:dunkins.robins@epa.gov)

**From:** Schrock, Bill  
**Sent:** Monday, November 09, 2015 4:49 PM  
**To:** Dunkins, Robin <[Dunkins.Robin@epa.gov](mailto:Dunkins.Robin@epa.gov)>  
**Cc:** Costa, Allison <[Costa.Allison@epa.gov](mailto:Costa.Allison@epa.gov)>  
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**From:** Costa, Allison  
**Sent:** Monday, November 09, 2015 4:46 PM  
**To:** Schrock, Bill <[Schrock.Bill@epa.gov](mailto:Schrock.Bill@epa.gov)>  
**Subject:** RE: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry

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**Subject:** FW: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry  
**Importance:** High

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**From:** Davis, Alison  
**Sent:** Monday, November 09, 2015 2:24 PM  
**To:** Dunkins, Robin <[Dunkins.Robin@epa.gov](mailto:Dunkins.Robin@epa.gov)>  
**Cc:** Schrock, Bill <[Schrock.Bill@epa.gov](mailto:Schrock.Bill@epa.gov)>; Costa, Allison <[Costa.Allison@epa.gov](mailto:Costa.Allison@epa.gov)>; Vasu, Amy <[Vasu.Amy@epa.gov](mailto:Vasu.Amy@epa.gov)>; Hackel, Angela <[Hackel.Angela@epa.gov](mailto:Hackel.Angela@epa.gov)>  
**Subject:** FW: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry  
**Importance:** High

Please see below. Let me know if noon isn't doable for a draft answer. I'll run traps with OGC after I see the draft.

Thank!!

**From:** Jones, Enesta  
**Sent:** Monday, November 09, 2015 11:56 AM  
**To:** Drinkard, Andrea <[Drinkard.Andrea@epa.gov](mailto:Drinkard.Andrea@epa.gov)>; Bremer, Kristen <[Bremer.Kristen@epa.gov](mailto:Bremer.Kristen@epa.gov)>  
**Cc:** Jones, Enesta <[Jones.Enesta@epa.gov](mailto:Jones.Enesta@epa.gov)>  
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Thank you!

Keri

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- Are there any different regulations for dry litter poultry operations?
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**Cc:** Bianco, Karen[Bianco.Karen@epa.gov]; Smith, Kristi[Smith.Kristi@epa.gov]  
**From:** Doster, Brian  
**Sent:** Tue 11/10/2015 2:44:54 PM  
**Subject:** RE: ACTION - PRESS -- : DEADLINE NOON TUESDAY --- NPR and Poultry  
[NPR Poultry Response 111015 + bld comments.docx](#)

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